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(54) DEVICE FOR CONNECTING WIRING

(11) 4-22075 (A) (43) 27.1.1992 (19) JP

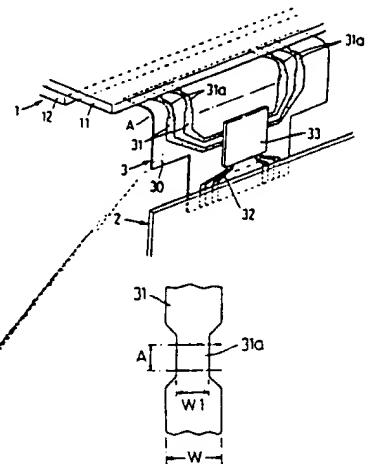
(21) Appl. No. 2-127598 (22) 17.5.1990

(71) SEIKO EPSON CORP (72) KENJI UCHIYAMA

(51) Int. Cl^s. H01R11/01, G02F1/1345, G09F9/00, H01R9/09, H05K1/14

PURPOSE: To easily dispose a flexible wiring-connecting member while bending the same without cutting the base material of the bent portion by making the cross area of the bent portion of the wiring of a flexible wiring connecting member smaller than that of the other portion of the wiring.

CONSTITUTION: The cross area of the bent portion A of the wiring of a flexible wiring-connecting member 3 i.e., the width W₁ of wiring 31a is smaller than that W of the other portion of the wiring. The width W₁ of the wiring 31a at the bent portion is properly set according to that W at the other portion; e.g. the width W of the wiring 31 of the flexible wiring connecting member for use in a liquid crystal display device is generally 50 to 150 μm , while the width W₁ of the wiring 31a at the bent portion is preferably 30 to 70% of the width W. Flexibility of the wiring is thus increased at the bent portion whereby the flexible wiring-connecting member can be bent without applying a force.



(54) CONNECTION STRUCTURE FOR TERMINAL

(11) 4-22076 (A) (43) 27.1.1992 (19) JP

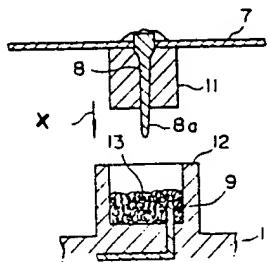
(21) Appl. No. 2-125745 (22) 16.5.1990

(71) FUJIKURA LTD (72) TAKEHISA IDE(2)

(51) Int. Cl^s. H01R13/03

PURPOSE: To easily and surely connect terminal by forming a connecting member with a fibered fine line composed of conductive material and having bent parts.

CONSTITUTION: A connecting member 13 is provided in the inside of a side wall 12, and plural bent parts are formed on a fibered fine line composed of conductive material in the connecting member 13. To connect each terminals 8 and 9, the upper side terminal 8 is moved in an arrow X direction to fit a lid part 11, provided on the terminal 8 in the side wall 12. This causes the tip part 8a of the terminal 8 to be inserted in the gap of the connecting member 13 to be connected, allowing the terminals 8 and 9 to become a conductive condition via the connecting member 13. This permits the sure conduction of the terminals 8 and 9 mutually with the connecting member 13.



(54) POGO PIN

(11) 4-22077 (A) (43) 27.1.1992 (19) JP

(21) Appl. No. 2-126199 (22) 16.5.1990

(71) NEC KYUSHU LTD (72) TOSHIAKI ARAKAWA

(51) Int. Cl^s. H01R13/17, H01R9/09

PURPOSE: To lessen an unnecessary area for arranging a pogo pin on a circuit board at every stage by bisectedly arranging inner cores in a duplex tube structure to an outer wall.

CONSTITUTION: A main inner core 3, for obtaining electrical connection with a circuit board 1, is fitted to a tubular outer wall 7 with a spring 5. A sub-inner-core 4, for obtaining electrical connection with a circuit board 2, has a duplex tube structure with coaxially inserted in the main inner core 3, and is fitted to the outer wall 7 with a spring 6 and a spring stopper 8 provided in the inside of the outer wall 7. Consequently a signal supplied to the outer wall 7 is transmitted to the main inner core 3 and the circuit board 1 via the spring 5, and concurrently is transmitted to the sub-inner-core 4 and the circuit board 2 via the spring 6. This can eliminate the need for arranging a pogo pin at every stage to lessen the area.

